

**AGE RELATED MACULAR DEGENERATION
CONTACT LENS COMPLICATION & MANAGEMENT**
2009 QEI EDUCATIONAL TOPIC QUIZ

1. Which of the following is not an example of an Infectious Contact Lens Complication?
 - a. Viral Conjunctivitis
 - b. Acanthamoeba Keratitis
 - c. Giant Papillary Conjunctivitis
 - d. Herpetic Keratitis
 - e. Bacterial Infiltrate
2. Which of the following tests can be used to diagnose Dry Eyes?
 - a. Schirmer Test
 - b. Phenol red thread test
 - c. Rose Bengal test
 - d. Tear break up time
 - e. All of the above
3. Which of the following are true about corneal hypoxia?
 - a. Can appear as microcysts and central corneal clouding
 - b. Can induce formation of striae and stromal thickening.
 - c. If chronic, can cause corneal exhaustion syndrome
 - d. Can be managed by switching to a higher Dk lens material
 - e. All of the above
4. Which of the following is characteristic of Contact Lens-induced Acute Red Eye (CLARE)
 - a. Does not affect visual acuity
 - b. It is non-infectious
 - c. It is non-ulcerative
 - d. Symptoms appear mainly upon waking from sleep
 - e. All of the above
5. Which of the following is a false statement about Superior Epithelial Arcuate Lesion (SEAL)?
 - a. Primarily found in the superior cornea
 - b. Can be caused by wearing high Dk lenses
 - c. Occur as thin, arcuate white lesions
 - d. All of the above
 - e. None of the above.
6. Which of the following does not describe an infectious infiltrate?
 - a. Small
 - b. Single
 - c. Large
 - d. Hypopyon
 - e. Photophobia

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7. Which one of the following is a false statement about contact lens solution complications?
 - a. Cleaning lenses with tap water can cause Acanthamoeba infection
 - b. Hydrogen peroxide must be irrigated if it spills in eye
 - c. You can treat with a steroid or NSAID(non-steroidal anti-inflammatory) drop if the epithelium is intact
 - d. Causes corneal staining with or without infiltrates
 - e. None of the above
 - f. All of the above
8. CLPU is defined as a
 - a. circular, well-circumscribed, dense, yellowish-white, focal corneal infiltrate (0.2 mm to 2.0 mm in diameter)
 - b. circular, well-circumscribed, dense, greenish-white, focal corneal infiltrate (0.6 mm to 2.5 mm in diameter)
 - c. Square, well-circumscribed, dense, yellowish-blue, focal corneal infiltrate (0.7 mm to 4.0 mm in diameter)
 - d. b and a are both correct
 - e. None of the above
9. The most common microbe associated with contact lens-related MK is a bacteria called? (Are you certain pseudomonas is correct?)
 - a. Pseudomonas aeruginosa.
 - b. Staph. Aureus
 - c. Staph. Epidermidis
 - d. All of the above
10. Which of these statements is true?
 - a. Contact lens complications affect about 24 percent of the ophthalmic patient population
 - b. Contact lens complications affect about 14 percent of the ophthalmic patient population
 - c. Contact lens complications do not affect 4 percent of the ophthalmic patient population
 - d. Contact lens complications affect about 4 percent of the ophthalmic patient population
 - e. None of the above
11. Age-related macular degeneration is a complex pathology with several risk factors. Which of the following is **NOT** a known risk factor?
 - a. short wavelength light
 - b. long wavelength light
 - c. cigarette smoking
 - c. obesity
 - d. loss of macular pigments

12. Regarding the neurological system, which of the following statements in **NOT** true?
- a. the ocular system is highly integrated with our central nervous system
 - b. the retinas have a complex photoreceptor system with neurological complexity
 - c. our neurological system is fully developed at birth
 - d. neurological tissue needs more energy compared to skeletal muscle tissue
 - 5. our perception of contrast is extremely high
13. Which of the following is **TRUE** about drusen:
- a. even one drusen body indicates the needs for AREDS supplementation
 - b. there is only one size of drusen bodies
 - c. the photoreceptors above drusen bodies are completely normal
 - e. Dr. Traboulsi feels looking for peripheral drusen is of value
 - f. the ARED study did not feel drusen was an important diagnostic sign
14. There is no indication that inflammation is involved in AMD pathogenesis: True or False
15. Regarding free oxygen radicals, which of the following is **NOT** true?
- a. they are a byproduct of normal oxygen metabolism
 - b. they attack lipid membranes
 - c. they can overwhelm the body's ability to neutralize them
 - d. their damage increases with age
 - e. since retinal tissue is not highly metabolic, they are not relevant in studying AMD
16. Regarding the ARED study, circle all that are **CORRECT**:
- a. it has proved to be a very valuable study
 - b. it studied vitamin and mineral supplementation
 - c. it showed that ALL patients will benefit from the supplement
 - d. there is no evidence that some supplements are harmful
 - e. appropriate recommendation will result with a significant number of people benefiting from it
17. Circle all statements that are **TRUE** about the wet form of AMD:
- a. it affects most patients with AMD
 - b. it involves abnormal choroidal vessel growth
 - c. it is always easy to detect
 - e. current treatments are still evolving
 - f. neovascular growth cannot penetrate the RPE

Name _____ License Number _____ Date _____

18. Regarding the treatment of AMD, circle all that are **INCORRECT**:
- a. anti-VEGF treatments have favorable potential
 - b. there are two types of AMD: dry and wet
 - c. both forms cause vision loss
 - d. verteporfin (Visudyne) is the best treatment evaluated to date
 - e. bevacizumab (Avastin) is **not** chemically related to ranibizumab (Lucentis)
19. Which of the following statements are **TRUE**:
- a. advanced bilateral vision loss has roughly a 33% incidence of Charles Bonnet syndrome (visual hallucinations)
 - b. central scotomas cause off-foveal fixation with a preferred retinal locus (PRL)
 - c. patients with vision loss rarely suffer from depression
 - d. there is no value to eccentric viewing training
 - e. eccentric viewing behavior is affected by type of pathology and duration of vision loss
20. As primary eyecare experts we should practice the following:
- a. careful evaluation of the macula for drusen development
 - b. screen for depression and other visual consequences of vision loss
 - c. consider referring patients with even moderate vision loss to low vision specialists
 - d. none of the above
 - e. all of the above